Polymer Bulletin Volume 32 1994

Editors

Prof. H.-J. Cantow Freiburger Materialforschungszentrum, Universität Freiburg, Stefan-Meier-Strasse 31, D-79104 Freiburg, Germany

Prof. J. P. Kennedy Institute of Polymer Science, The University of Akron, Akron, OH 44325, USA

Prof. T. Shimidzu Division of Molecular Engineering, Kyoto University, Kyoto 606, Japan

Editorial board

A. Abe, Tokyo, Japan; **S. L. Cooper,** Newark, Del, USA; **K. Dušek,** Prague, Czech Republic; **W. J. Feast,** Durham, UK; **A. Fradet,** Paris, France; **J. K. Gillham,** Princeton, NJ, USA; **H. K. Hall Jr.,** Tuscon, Ariz, USA; **M. L. Hallensleben,** Hannover, Germany; **K. Hatada,** Osaka, Japan; **T. Higashimura,** Kyoto, Japan; **H. H. Kausch,** Lausanne, Switzerland; **C. Y. Kim,** Seoul, Korea; **M. Kobayashi,** Osaka, Japan; **R. W. Lenz,** Amherst, Mass, USA; **T. Masuda,** Kyoto, Japan; **J. Meissner,** Zürich, Switzerland; **R. Mühlhaupt,** Freiburg, Germany; **A. Nakajima,** Hyogo-Ken, Japan; **J. H. O'Donnell,** St. Lucia, Queensland, Australia; **E. F. Oleinik,** Moscow, RUSS; **A. J. Pennings,** Groningen, The Netherlands; **V. Percec,** Cleveland, Ohio, USA; **T. Saegusa,** Kyoto, Japan; **B. Sandner,** Merseburg, Germany; **O. Vogl,** Brooklyn, NY, USA; **G. Wilkes,** Blacksburg, VA, USA; **Y. Yagci,** Istanbul, Turkey; **S. Yamashita,** Kyoto, Japan; **M. Zsuga,** Debrecen, Hungary

Copyright

Submission of a manuscript implies: that the work described has not been published before (except in the form of an abstract or as part of a published lecture, review, or thesis); that it is not under consideration for publication elsewhere; that its publication has been approved by all coauthors, if any, as well as by the responsible authorities at the institute where the work has been carried out; that, if an when the manuscript is accepted for publication, the authors agree to automatic transfer of the copyright to the publisher; and that the manuscript will not be published elsewhere in any language without the consent of the copyright holders.

All articles published in this journal are protected by copyright, which covers the exclusive rights to reproduce and distribute the article (e.g., as offprints), as well as all translation rights. No material published in this journal may be reproduced photographically or stored on microfilm, in electronic data bases, video disks, etc., without first obtaining written permission from the publisher.

The use of general desciptive names, trade names, trademarks, etc., in this publication, even if not specifically identified, does not imply that these names are not protected by the relevant laws and regulations.

While the advice and information in this journal is believed to be true and accurate at the date of its going to press, neither the authors, the editors, nor the publisher can accept any legal responsibility for any errors or omissions that may be made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

Special regulations for photocopies in the USA: Photocopies may be made for personal or in-house use beyond the limitations stipulated under Section 107 or 108 of U.S. Copyright Law, provided a fee is paid. This fee is US $ 0.20 per page per copy, plus a basic fee of US $ 2.00 per article. All fees should be paid to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA, stating the ISSN 0170-0839, the volume, and the first and last page numbers of each article copied. The copyright owner's consent does not include copying for general distribution, promotion, new works, or resale. In these cases, specific written permission must first be obtained from the publisher.

The Canada Institute for Scientific and Technical Information (CISTI) provides a comprehensive, world-wide document delivery service for all Springer-Verlag journals. For more information, or to place an order for a copyright-cleared Springer-Verlag document, please contact Client Assistant, Document Delivery, Canada Institute for Scientific and Technical Information, Ottawa K1A 0S2, Canada (Tel: 613-993-9251; Fax: 513-952-8243; e-mail: cisti.docdel @ pro.ca).

Printers: Druckhaus Beltz, Hemsbach/Bergstraße
© Springer-Verlag Berlin Heidelberg 1994
Springer-Verlag GmbH & Co. KG, Berlin, Germany
Printed in Germany

Springer International

Author Index Volume 32 (1994)

Addink R see Tijn A-Lim DS
Akaike T see Cho CS
Alvarez-Castillo A, Castaño VM: Semi-interpenetrating polymer networks produced with polyethylene terephthalte oligomer and unsaturated polyester resin 447
Amaya N see Volkov VV
Andrade CT see Garcia RB
Appleby T, Cser F, Moad G, Rizzardo E, Stavropoulos C: Compatibilization of polystyrene-polyolefin blends. Impact properties 479
Arndt KF, Galinsky G: Compression mearusements on dry and swollen networks 103
Ayal HA see Contreras JM

Balikdjian I see Penelle J
Bantjes A see Chupov VV
Barson CA, Bevington JC, Breuer SW: The reactivities towards the benzoyloxy radical of various isomers of fluorostilbene 625
Bayard P, Jérôme R, Teyssié P, Varshney S, Wang JS: A new family of "ligand" anionic initiators for the "living" polymerization of (meth)acrylic esters 381
Beasy M, Wang F, Roovers J: Synthesis and bromination of di, tri-, and tetra-methyl substituted poly-(aryl ether ether ketone)s 281
Bello A see Pérez E
Bélorgey G see Berkoukchi MP
Berek D, Jančo M, Kitayama T, Hatada K: Separation of poly(methyl methacrylate)s according to their tacticity. 1.Preliminary studies on the tacticity dependence of chromatographic behavior of stereoregular PMMAs 629
Berkoukchi MP, Hélary G, Bélorgey G, Hogen-Esch TE: Stereocomplex formation in polybutadiene-syndiotactic poly(methyl methacrylate) block copolymers blended with isotactic poly(methyl methacrylate). 2. Influence of molar masses 297
Bertorello MM de see Bonvin MM
Bevington JC see Barson CA
Bhogle A see Bordély M
Blackmore JM see Jandt KD
Boileau S see Yu JM
Bonvin MM, Bertorello MM de: In vitro drug release from chitosan membranes. Study of the mechanisms of permeation 69
Bordély J see Bordély M
Bordély J see Nemes S
Bordély M, Nagasaki Y, Bordély J, Fan K, Bhogle A, Sevolan M: Biosynthesis and chemical modification of poly(γ-glutamic acid) 127
Bouchal K, Sedláková Z, Ilavský M: Phase transition in swollen gels. 19. Effect of the crosslinker with a negative charge on the collapse of polyacrylamide networks 331
Boyd RH see Malmström E
Braun H, Rudolf B, Cantow HJ: Enthalpic interaction of diblock copolymers with immiscible polymer blend components 241
Breuer SW see Barson CA

Cai Y see Dong L
Cambon A see Yamagishi TA
Cantow HJ see Braun H
Cantow HJ see Crämer K
Cantow HJ see Schneider HA
Cantow HJ see Wawkuschewski A
Carpaneto L, Marsano E: Computer simulation of aggregation phenomena based on cooperative linking mechanism in polymers 719
Castaño VM, Oliva E, del-Real A, Mexia P, Víquez S, Rivera E, Martínez E: The role of sample preparation on the study of the microstructure of rubber-reinforced polymers 693
Castaño VM see Alvarez-Castillo A
Chang HL see Lu YH
Chelaru C see Simionescu CI
Chiellini E see Lestel L
Cho HN see Choi SJ
Cho CS, Akaike T: Orientation of merocyanine dye in Langmuir-Blodgett films of mixtures of poly(γ-benzyl L-glutamate)/poly(ethylene oxide)/poly(γ-benzyl L-glutamate) block copolymer and dye 97
Choi SK see Choi SJ
Choi SK see Lee HJ
Choi SK see Oh JM
Choi SJ, Cho HN, Choi SK: Synthesis and characterization of new side chain liquid crystalline polymers based on poly(dipropargylamine) main chain 11
Choi SJ, Cho HN, Choi SK: Synthesis and properties of a new side chain liquid crystalline polymer by metathesis polymerization 179
Choi SJ see Lee HJ

Chupov VV, Does L van der, Platé NA, Bantjes A: Polymeric carriers for covalent immobilization of amino groups containing compounds 229
Cianga I see Simionescu CI
Clarebout G see Penelle J
Contreras JM, Ayal HA, Rabagliati FM: Polymerization of styrene with diphenylzinc-butanone systems 367
Cotzur C see Pinteala M
Coudane J see Schwach G
Coudray S, Pascault JP, Taha M: Acrylated polyurethanes by reactive extrusion 605
Crämer K, Schneider M, Mülhaupt R, Cantow HJ, Magonov SN: Scanning force microscopy of oriented iso- and syndiotactic polypropylene films 637
Cser F see Appleby T

Damerau T, Hennecke M, Greiner A: Photoreactivity of poly(*p*-phenylphenylenevinylene) 201
De Boinis M see Garcia RB
del-Real A see Castaño VM
Diaconu I see Simionescu CI
Díaz Calleja R, Gargallo L, Radić D: Viscoelastic relaxations in poly(dimethylphenyl methacrylates) 675
Djakov DP see Veličković J
Does L van der see Chupov VV
Dong JH see Qiu KY
Dong L, Hill DJT, Cai Y, Zheng J: Miscibility in blends of polystyrene and poly(methyl methacrylate) studied by nonradiative energy transfer 347

Engel R see Schwach G
Erbil C see Saraç AS

Fadeev AG see Volkov VV
Fan K see Bordély M
Farcas A see Simionescu CI
Fedtke M see Koscielny B
Fedtke M see Pfitzmann A
Filipović J see Veličković J
Fischer H, Zuev VV: Liquid crystalline polyesteramides containing crown ether units in the mesogenes 559
Fliedner E see Pfitzmann A
Fritzer HP see Saf R
Fu K see Zhang J
Fujii S see Hayakawa Y
Fujimoto N see Györ M
Fulton JA, Smith DJ: Metal binding properties of poly[*N,N,N',N'*-tetrakis(2-hydroxypropyl)ethylenediamine methacrylate] 705

Galinsky G see Arndt KF
Galli G see Lestel L
Garcia RB, De Boinis M, Andrade CT: Mechanical and morphological features of agarose-guar gum gels 111
Gargallo L see Díaz Calleja R
Gatterer K see Saf R
Gedde UW see Malmström E
Gedde UW see Wallgren E
Godinho MH see Yamagishi TA
Goh SH see Low SM
Gómez-Elvira JM see Tiemblo P
Greiner A see Damerau T
Grigoras M see Simionescu CI
Grijpma DW see Supèr H
Groβmann HP, Schwede J, Heise B, Rauschenberger V, Reinold EW, Rothe M: Cyclic diamides with $(CH_2)_x$ segments: Phase transitions in the solid state 653
Guhaniyogi SC see Trumbo DL
Guittard F see Yamagishi TA
Guo H, Weber WP: Ruthenium catalyzed regioselective copolymerization of acetophenone and α,ω-dienes. Addition of aromatic *ortho* C-H bonds across C-C double bonds of α,ω-dienes 525
Györ M, Kitayama T, Fujimoto N, Nishiura T,

Hatada K: Comb-like triblock copolymers by Wurtz-Grignard coupling of syndiotactic PMMA anions to poly[(*p*-bromomethyl)styrene]-b-polyisobutylene-b-poly[(*p*-bromomethyl)styrene] 155
Hallensleben ML, Mödler M: Homo- and copolymers of methacryloylmalodiethylester, synthesis and behavior 141
Harabagiu V see Pinteala M
Harwood HJ see Trumbo DL
Hatada K see Berek D
Hatada K see Györ M
Hatada K see Kitayama T
Hayakawa Y, Nishida M, Kimoto H, Fujii S, Sawada H: Gas and vapor permeability of perfluoroalkylated polymers 661
Heise B see Groβmann HP
Hélary G see Berkoukchi MP
Hennecke M see Damerau T
Higashimura T see Masuda T
Higashimura T see Ohgane T

Higashimura T see Tachimori H
Higashimura T see Tamura K
Hill DJT see Dong L
Hogen-Esch TE see Berkoukchi MPHolerca MN see Pinteala M
Hong SI see Lee TS
Hruska Z, Vuillemin B, Riess G: Use of the phenanthrene-based lithium initiator in the anionic polymerization of methyl methacrylate 163
Hsieh CT see Liu HJ
Hsu CS see Lu YH
Hu DSG see Liu HJ
Hult A see Malmström E
Hult A see Wallgren E
Hummel K see Saf R

Ilavský M see Bouchal K
Ishida S see Yamagishi T
Itagaki H, Takahashi I, Natsume M, Kondo T: Gelation of cellulose whose hydroxyl groups are specifically substituted by the fluorescent groups 77
Ito S see Yamagishi T
Itoh T see Iwatsuki S
IUPAC, Macromolecular Division, Commission on Macromolecular Nomenclature: List of valid recommendations on macromolecular nomenclature 125
Iwatsuki S, Itoh T, Kubo M, Okuno H: Synthesis and polymerization of 4-vinyl[2,2]paracyclophane 27

Jančo M see Berek D
Jandt KD, McDonnell DG, Blackmore JM, Miles MJ: Surface morphology of a liquid crystalline side-chain polymer investigated by scanning force microscopy 487
Jérôme R see Bayard P
Jérôme R see Vandooren C

Kajiyama T see Volkov VV
Kapellen KK, Stadler R: Synthesis and characterization of amphiphilic comb-polymers via ring opening metathesis polymerization of *exo,exo*-5,6-bis (alkoxymethyl)-7-oxabicyclo[2.2.1]hept-2-enes 3
Karlou K see Schneider HA
Kato N, Yamazaki N, Nagasaki Y, Kato M: Synthesis of poly{4-[bis(trimethylstannyl)methyl] styrene} and its properties for electron-beam resist 55
Kato M see Kato N
Katsikas L see Popović IG
Kausch HH see Plummer CJG
Kayaman N, Önen A, Yağci Y, Schnabel W: Photosensitized free radical polymerization using pyridium salts 589
Kennedy JP see Pernecker T
Khalifa RB see Yu JM
Kim HK see Lee HJ
Kimoto H see Hayakawa Y
Kitayama T, Nishimura T, Oshima A, Ute K, Hatada K: Stereochemical effects on the fragmentation in mass spectrometry of stereoregular oligomers of methyl methacrylate 215
Kitayama T, Zhang Y, Hatada K: Preparation of heterotactic-rich poly(methyl methacrylate) with narrow molecular weight distribution by *tert*-butyllithium/bis(2,6-di-*tert*-butylphenoxy)methylaluminum 439
Kitayama T see Berek D
Kitayama T see Györ M
Kmínek I, Nešpůrek S: 4-Nitrophenylhydrazones of partially formylated polystyrene, their properties and crosslinking 573
Kondo T see Itagaki H
Koscielny B, Pfitzmann A, Fedtke M: Synthesis and characterization of glycidyl ethers modified by mesogenic units 529
Kouzai H see Tachimori H
Kubo M see Iwatsuki S

Laus M see Lestel L
Lee SY see Low SM
Lee HJ, Oh JM, Choi SJ, Kim HK, Choi SK: Phosphonated poly(1,6-heptadiyne) derivatives prepared by metathesis polymerization for nonlinear optics 433
Lee HJ see Oh JM
Lee TS, Hong SI: Synthesis of porous poly(hydroxamic acid) from poly(ethyl acrylate-*co*-divinylbenzene) 273
Lestel L, Galli G, Laus M, Chiellini E: Thermal and dynamic-mechanical properties of new chiral smectic networks 669
Li W, Prud'homme RE: The transition moment angle of the ν_{CN} vibration in SAN copolymers 223
Liu F see Malmström E
Liu HJ, Hsieh CT, Hu DSG: Solute diffusion through degradable semicrystalline polyethylene glycol/poly (L-lactide) copolymers 463
Low SM, Goh SH, Lee SY, Neo MK: Miscible blends of poly(*N*-vinyl-2-pyrrolidone) with poly(3-chloropropyl methacrylate), poly(2-bromoethyl-methacrylate) and poly(2-iodoethyl methacrylate) 187

Lu YH, Chang HL, Hsu CS: Synthesis of side-chain liquid crystalline polyoxetanes containing 4-dodecanyloxyphenyl *trans*-4-alkylcyclohexanoate side groups 551

Maglio G, Palumbo R, Sepede FC: Multiblock polyurethanes containing butadiene-co-acrylonitrile oligomers as soft segments 565
Magonov SN see Crämer K
Magonov SN see Wawkuschewski A
Malmström E, Liu F, Boyd RH, Hult A, Gedde UW: Relaxation processes in hyperbranched polyesters 679
Marsano E see Carpaneto L
Martínez E see Castaño VM
Martínez G see Tiemblo P
Martins AF see Yamagishi TA
Marugán MM see Pérez E
Masson P see Wong J
Masuda T, Mishima K, Seki H, Nishida M, Higashimura T: Living metathesis polymerization of (*p*-*n*-butyl-*o*,*o*,*m*,*m*-tetrafluorophenyl)acetylene by $MoOCl_4$-*n*-Bu_4Sn-EtOH (1:1:1) 19
Masuda T see Ohgane T
Masuda T see Tachimori H
Masuda T see Tamura K
McDonnell DG see Jandt KD
Mexia P see Castaño VM
Mijs WJ see Tijn A-Lim DS
Miles MJ see Jandt KD
Millán J see Tiemblo P
Mishima K see Masuda T
Moad G see Appleby T
Mödler M see Hallensleben ML
Montaudo G see Shaikh AG
Moszner N, Salz U, Rheinberger V: Reaction behaviour of monomeric β-ketoesters. 1.Synthesis and polymerization of complexes of 2-acetoacetoxyethyl methacrylate 411
Moszner N, Salz U, Rheinberger V: Reaction behaviour of monomeric β-ketoesters. 2.Synthesis, characterization and polymerization of methacrylate group containing enamines 419
Mülhaupt R see Crämer K
Mülhaupt R see Rösch J
Mülhaupt R see Schneider HA
Mülhaupt R see Schneider M
Mülhaupt R see Steinhauser N
Müller AJ see Santana OO
Murata Y see Volkov VV

Nagasaki Y see Bordély M
Nagasaki Y see Kato N
Nakamoto Y see Yamagishi T
Natsume M see Itagaki H
Nemes S, Bordély J: Synthesis and properties of naphthalene oligomers polyalkylated with 1-octadecene and 1-hexadecene 493
Neo MK see Low SM
Nešpůrek S see Kmínek I
Nicoud JF see Wong J
Nishida M see Hayakawa Y
Nishida M see Masuda T
Nishimura T see Kitayama T
Nishiura T see Györ M
Nomoto M see Yamagishi T

Oh JM, Lee HJ, Shim HK, Choi SK: Synthesis and surface activity of novel ABA type triblock cationic amphiphiles 149
Oh JM see Lee HJ
Ohgane T, Masuda T, Higashimura T: Metathesis copolymerization of chlorine-containing acetylenes with NBE catalyzed by $MoCl_5$-*n*-Bu_4Sn 517
Okuno H see Iwatsuki S
Oliva E see Castaño VM
Önen A see Kayaman N
Oshima A see Kitayama T

Palumbo R see Maglio G
Pascault JP see Coudray S
Penelle J, Clarebout G, Balikdjian I: Ring-opening polymerization of activated cyclopropanes: polymerization of diethyl 1,1-cyclopropanedicarboxylate by metallic sodium 395
Pennings AJ see Supèr H
Percec V, Zheng Q: Synthesis and mesomorphic behavior of poly[(2*S*,3*S*)-(+)-2-chloro-3-methylpentyl 4'-(ω-vinyloxyalkyloxy)biphenyl-4-carboxylate]s with ethyl and propyl alkyl groups 249
Percec V see Ungar G
Pereña JM see Pérez E
Pérez E, Marugán MM, Bello A, Pereña JM: Small-angle synchrotron study of liquid crystalline poly-[oxybis(trimethylene) *p*,*p*'-bibenzoate] 319
Pernecker T, Kennedy JP: Carbocationic polymerizations in supercritical carbon dioxide. I. Exploratory experiments with isobutylene 537
Pfitzmann A, Fliedner E, Fedtke M: Curing of epoxy resins with dicyandiamide: NMR and IR investigation of isolated main products 311

Pfitzmann A see Koscielny B
Pinteala M, Harabagiu V, Cotzur C, Holerca MN, Simionescu BC: Functional polysiloxanes. 2.On the reaction of hydroxypropyl- and aminoalkyl-terminated polydimethylsiloxanes with cyclic anhydrides 173
Platé NA see Chupov VV
Platé NA see Volkov VV
Plummer CJG, Kausch HH: A DSC investigation of the crystallization kinetics of polyoxymethylene 117
Popović IG, Katsikas L, Weller H: The photopolymerization of methacrylic acid by colloidal semiconductors 597
Prud'homme RE see Li W
Puglisi C see Shaikh AG

Qiu KY, Zhao JB, Dong JH: Radical polymerization and graft polymerization with ceric ion and 3-phenylmethyl-2,4-pentanedione system 581

Rabagliati FM see Contreras JM
Radić D see Díaz Calleja R
Rauschenberger V see Groβmann HP
Rectanus S, Stadler R: 4-Vinylphthalic anhydride. A new monomer for reactive homo- and copolymers 373
Reinold EW see Groβmann HP
Rheinberger V see Moszner N
Rieger B: Stereospecific propene polymerization with rac-[1,2-bis(η^5-(9-fluorenyl)-1-phenylethane] zirconium dichloride/methylalumoxane 41
Riess G see Hruska Z
Rivera E see Castaño VM
Rizzardo E see Appleby T
Roovers J see Beasy M
Rösch J, Mülhaupt R: Mechanical properties of organosolv-lignin-filled thermoplastics 361
Rösch J, Mülhaupt R: The role of core/shell-microparticle dispersions in polypropylene/polyamide-6 blends 694
Rothe M see Groβmann HP
Rudolf B see Braun H
Rudolf B see Schneider HA

Saf R, Hummel K, Gatterer K, Fritzer HP: On the magnetic properties of poly(2-(3,5-diethynylenephenyl)-4,4,5,5-teramethyl-4,5-dihydro-1H-imidazol-1-oxyl-3-oxide) 83
Salz U see Moszner N
Samperi F see Shaikh AG
Santana OO, Müller AJ: Homogeneous nucleation of the dispersed crystallisable component of immiscible polymer blends 471
Saraç AS, Ustamehmetoğlu B, Erbil C: Potentiometric determination of the molecular weight of polymers 91
Sawada H see Hayakawa Y
Schnabel W see Kayaman N
Schneider HA, Rudolf B, Karlou K, Cantow HJ: Pressure influence on the glass transition of polymers and polymer blends 645
Schneider HA, Steinhauser N, Mülhaupt R: Influence of flexible oligo(tetrafluoroethane) segments on the glass temperature of poly(aramide)s and poly(amide imide)s 339
Schneider M, Mülhaupt R: Living dispersion polymerization of styrene in the presence of polystyrene-block-poly(4-trimethylsilylstyrene) 545
Schneider M see Crämer K
Schwach G, Coudane J, Engel R, Vert M: Stannous octoate- versus zinc-initiated polymerization of racemic lactide. Effcts on configurational structures 617
Schwede J see Groβmann HP
Sedláková Z see Bouchal K
Seki H see Masuda T
Sepede FC see Maglio G
Sevolan M see Bordély M
Shaikh AG, Sivaram S, Puglisi C, Samperi F, Montaudo G: Poly(arylenecarbonate)s oligomers by carbonate interchange reaction of dimethyl carbonate with bisphenol-A. FAB-MS evidence for the nature of end groups in the oligomers 427
Shim HK see Oh JM
Simionescu BC see Pinteala M
Simionescu CI, Chelaru C: Sulfonated copolymers of acrylamide synthesized by plasma-initiated copolymerization in order to obtain polymers for enhanced oil recovery 611
Simionescu CI, Grigoras M, Cianga I, Diaconu I, Farcas A: Chemical synthesis of some Schiff base-type polymers containing pyrrole units 257
Sivaram S see Shaikh AG
Sixou P see Yamagishi TA
Smith DJ see Fulton JA
Stadler R see Kapellen KK
Stadler R see Rectanus S
Stavropoulos C see Appleby T
Steinhauser N, Mülhaupt R: Preparation and cure behavior of dimethacrylates containing oligo(tetrafluoroethane) segments 403
Steinhauser N see Schneider HA
Supèr H, Grijpma DW, Pennings AJ: Incorporation of salicylates into poly(L-lactide) 509

Tachimori H, Masuda T, Kouzai H, Higashimura T: Synthesis and properties of poly(diphenylacetylenes) having ether linkages 133
Taha M see Coudray S
Takahara A see Volkov VV
Takahashi I see Itagaki H
Tamura K, Masuda T, Higashimura T: New catalyst systems for the polymerization of substituted acetylenes: $M(CO)_6$-Lewis acid-hv(M=W,Mo) 289
Terselius B see Wallgren E
Teyssié D see Yu JM
Teyssié P see Bayard P
Teyssié P see Vandooren C
Tiemblo P, Martínez G, Gómez-Elvira JM, Millán J: On a novel interpretation of PVC antiplasticization based on some local chain conformations 353
Tijn A-Lim DS, Addink R, Mijs WJ: Crosslinking of carboxyl functional (meth)acrylate copolymers with bisketeneimine 455
Trumbo DL, Guhaniyogi SC, Harwood HJ: A preliminary analysis of the high field ^{13}C-NMR and ^{1}H-NMR spectra of poly(2-thienyl vinyl ketone) 305
Trumbo DL, Harwood HJ: An analysis of the ^{1}H- and ^{13}C-NMR spectra of poly(3-bromostyrene) 207
Turcsányi B: Monomer conversion kinetics in the radical initiated reactive processing 713

Ungar G, Percec V, Zuber M: Influence of molecular structure on the nematic-nematic transition in polyethers based on 1-(4-hydroxyphenyl)-2-(2-R-4-hydroxyphenyl)ethane where R=CH_3 and Cl, and flexible spacers with an odd number of methylene units 325
Ustamehmetoğlu B see Saraç AS
Ute K see Kitayama T

Vandooren C, Jérôme R, Teyssié P: Living cationic polymerization of 1H,1H,2H,2H perfluorooctyl vinyl ether 387
Varshney S see Bayard P
Veličković J, Filipović J, Djakov DP: The synthesis and characterization of poly(itaconic) acid 169
Vert M see Schwach G
Víquez S see Castaño VM
Volkov VV, Fadeev AG, Plate NA, Amaya N, Murata Y, Takahara A, Kajiyama T: Effect of thermal molecular motion on pervaporation behavior of comb-shaped polymers with fluorocarbon side groups 193
Vuillemin B see Hruska Z

Wallgren E, Hult A, Terselius B, Gedde UW: Miscibility assessment and thermal oxidative stability of blends of branched polyethylene and poly(1,2-butadiene) 687
Wang F see Beasy M
Wang JS see Bayard P
Wawkuschewski A, Cantow HJ, Magonov SN: Surface morphology and nanostructure of high modulus polyethylene fiber 235
Weber WP see Guo H
Weller H see Popović IG
Wong J, Masson P, Nicoud JF: Synthesis of new donor-acceptor diarylacetylene chromophores and preparation of corresponding nonlinear optical side-chain polymers 265

Yağci Y see Kayaman N
Yamagishi T, Nomoto M, Ito S, Ishida S, Nakamoto Y: Preparation and characterization of high molecular weight novolak resins 501
Yamagishi TA, Guittard F, Godinho MH, Martins AF, Cambon A, Sixou P: Comparison of thermal and cholesteric mesophase properties among the three kinds of hydroxypropylcellulose (HPC) derivatives 47
Yamazaki N see Kato N
Yu JM, Teyssié D, Khalifa RB, Boileau S: Anionic polymerization and copolymerization of cyclosiloxanes initiated by trimethylsilylmethyllithium 35

Zhang J, Fu K: Laser-initiated homogeneously photocatalytic polymerization of phenylacetylene by $W(CO)_6$-CH_3I system 63
Zhang Y see Kitayama T
Zhao JB see Qiu KY
Zheng J see Dong L
Zheng Q see Percec V
Zuber M see Ungar G
Zuev VV see Fischer H

Indexed in *Current Contents*

Subject Index Volume 32 (1994)

ABA diblock copolymers 241
ABA type triblock cationic amphiphiles 149
2-Acetoacetoxyethyl methacrylate 411, 419
Acetophenone/α,ω-dienes 525
Acetylenes, chlorine-containing 517
Acetylenes, substituted 289
Acrylamide, radical polymerization 581
Acrylamide 91
Acrylamide, sulfonated copolymers 611
Acrylamide-co-2-acrylamido-2-methyl propane sulfonic acid 611
Acrylic esters 381
Acrylonitrile 91
Acryloylchloride 229
Acylchlorides, saturated 229
Agarose-guar-gum gels 111
Aggregates, cooperative linking 719
n-Alkylbromides 3
Alkylnaphthalenes, long-chain polyalkylated 493
Amphiphilic comb-polymers 3
Antiplasticization, PVC 353
Azatolane conjugated path 265

Bacillus subtilis 127
Bacillus licheniformis 127
Benzoyl peroxide 625
Biocompatibility/bioresorbability, poly(lactic acid)s 617
Biodegradable polymers, poly(L-lactide) 509
exo,exo-5,6-Bis(alkoxymethyl)-7-oxabicyclo[2.2.1]hept-2-enes 3
Bis(2,6-di-*tert*-butylphenoxy)methylaluminum 439
Bis(heptafluorobutyl) peroxide 661
4-[Bis(trimethylstannyl)methyl]styrene 55
2,2-Bisacrylamidopropionic acid, network of copolymers 331
Bisketeneimines 455
Boron trifluoride etherate 27
Butadiene-co-acrylonitrile oligomers, multiblock polyurethanes 565
n-Butyl acrylate 381
(*p*-*n*-Butyl-*o,o,m,m*-tetrafluorophenyl)acetylene 19

Carbon dioxide, supercritical, carbocationic polymerization 537
Carbonate interchange reaction 427
CdS/HgS, CdS/TiO_2 597
Cellulose, fluorescent-labelled 77
Cellulose derivatives, cholesteric mesophase 47
Cellulose, gelation 77
Ceric ion/3-phenylmethyl-2,4-pentanedione 581
Cerium (IV)-malonic acid 91
Chelating polymers 273
Chiral smectic networks 669
Chitosan membranes, drug release 69
1-Chloro-1-octyne 517
1-Chloro-2-phenylacetylene 517
2-Chloro-2,4,4-trimethyl-pentane 537
Colloidal semiconductor initiators 597
Comb-shaped polymers, fluorocarbon side groups 193
Compatibilizer 479
Cooperative linking, aggregation 719
Copolyethers, main-chain liquid crystalline 325
Core/shell-microparticle dispersion, polypropylene/polyamide-6 694
Cyclo(octamethylene sebacamide) 653
Cyclopropanes, activated 395
Cyclosiloxanes, trimethylsilylmethyllithium 35

Diamides, cyclic 653
Diamine, tetra-alkanol substituted 705
Diarylacetylene chromophores, donor-acceptor 265
Dibenzo-[18]-crown-6 559
Diblock copolymers, enthalpic interaction, immiscible polymer blend components 241
1,3-Dicarbonyl compounds 141
Dichroism, infrared, orientation of polymer blends 223
Dicyandiamide, cure of epoxy resins, NMR/IR 311
α,ω-Dienes, acetophenone 525
Diethyl 1,1-cyclopropanedicarboxylate 395
Diethyl malonate 141
Difluorobenzophenone 281
Diglycidyl ethers 529
1,3-Diketone pendant groups 581
β-Diketones, polymerizable 411
Dimethacrylates, oligo(tetrafluoroethane) 403
Dimethyl carbonate/bisphenol-A 427
N,N-Dimethylacrylamide 141
2-(Dimethylamino)ethyl methacrylate 149
2,3-Dimethylhydroquinone 281
Diphenylacetylene 133
Diphenylzinc-butanone 367
Dispersion polymerization, non-aqueous 545

Divinyldimethylsilane 525
Divinyltetramethyldisiloxane 525
4-Dodecanyloxyphenyl *trans*-4-alkylcyclohexanoate 551
Drug delivery, controlled release 69
DSC, polyoxymethylene 117

Elastic behavior, networks 103
Elastomer, soft maleic-anhydride-grafted 694
Electrically conductive polymers 257
Electron-beam resist 55
Enamines, polymerizable 419
End functional groups, quantitative determination 91
Enhanced oil recovery 611
Epoxy compounds 529
Epoxy resins, dicyandiamide, NMR/IR 311
Ethanol permselectivity 661
Ethyl acrylate, irradiation 589
2-Ethylhexylacrylate 381

Fast atom bombardment mass spectrometry (FAB-MS) 427
Ferromagnetism, organic substances 83
Fluorescent probe, cellulose 77
Fluorine-containing polymers 339, 387, 661
Fluorostilbene, benzoyloxy radical 625

Glass transition, blends, pressure influence 645
Glycidyl ethers, mesogenic units 529
Group transfer polymerization 149
Guar gum gels, agarose 111

Heck-raction 373
Heterocumulenes, multifunctional 455
Heterotactic polymers 439
High performance polymers 281
Hydroxamic acids 273
Hydroxylamine 273
1-(4-Hydroxyphenyl)-2-(2-R-4-hydroxyphenyl)ethane 325
Hydroxypropylcellulose derivatives 47
Hyperbranched polyesters 679

Immiscible polymer blends 471
Infrared dichroism, orientation of polymer blends 223

Initiators, CdS/HgS, CdS/TiO_2 597
Iodomethane 149
Isobutylene, supercritical carbon dioxide 537
Itaconic acid 169

Keteneimines 455
β-Ketoesters, monomeric 411, 419

Lactide, di-/trisalicylide 509
-, racemic 617
Langmuir-Blodgett multilayers 97
Liquid-crystalline (LC) networks 669
- - side-chain polymer, SFM 487
Lithium alkoxides, chelating 381
- initiator, phenanthrene-based 163
Living polymerization, (meth)acrylic esters 381

$M(CO)_6$-Lewis acid-hν(M=W,Mo) 289
Magnetic properties 83
Main-chain liquid crystalline copolymers 325
Merocyanine dye 97
Mesophase transitions 653
Metal binding 705
- carbenes 517
- carbonyl complexes 63
Metallacyclobutanes 517
Metathesis polymerization, side chain liquid crystalline polymers 179
Methacrylacetone 411
Methacrylate copolymers, bisketeneimines 455
- esters 265
Methacrylates, stereospecific polymerization 439
Methacrylic acid, Photopolymerization 597
Methacrylic esters 381
Methacryloylmalodiethylester 141
2-Methacryloyloxyethyltrimethyl ammonium iodide 149
4-Methoxybiphenyloxy-(*N,N'*-dipropargyl)undecane amide 179
Methyl methacrylate, *tert*-butyllithium 439
- -, irradiation 589
- -, stereoregular oligomers 215
Methylalumoxane 41
Methylenebisacrylamide 331
$MoCl_5$-*n*-Bu_4Sn 517
Molecular weight, potentiometric determination 91
$MoOCl_4$-*n*-Bu_4Sn-EtOH 19
Multiphase blends 241

Naphthalene oligomers, 1-octadecene/1-hexadecene 493
Networks, dry/swollen, compression measurements 103
4-Nitrophenylhydrazones, formylated polystyrene 573
Non-centrosymmetric nonlinear optical materials 573
Nonlinear optical side-chain polymers 265
Norbomene 517
Novolak resins, high molecular weight 501

Oil recovery, sulfonated copolymers of acrylamide 611
Olefin metathesis 289
Oligo(tetrafluoroethane) 403
-, flexible 339
Oligosiloxanes, organofunctional 173
Organic ferromagnetic materials 83
Organosolv-lignin-filled thermoplastics 361
Organostannum-containing polymer 55

[2.2]Paracyclophane 27
Perfluoroalkylated polymers, gas/vapor permeability 661
Perfluoroalkylene 403
Perfluorooctyl vinyl ether 387
(1-(9-Phenanthryl)-1-phenyl-3-methylpentyl)lithium 163
Phenol-formaldehyd resins 501
Phenylacetylene 19
-, Lewis acid polymerized 289
-, $W(CO)_6$-CH_3I system 63
1-Phenyl-2-(*p*-*n*-butoxyphenyl)acetylene 133
3-Phenylmethyl-2,4-pentanedione, ceric ion 581
1-Phenyl-2-(*p*-phenoxyphenyl)acetylene 133
Photoinitiators 589
Photopolymerization, methacrylic acid 597
Photoreactivity 201
Photoresists, negative 201
Photosensitized free radical polymerization, pyridinium salts 589
Plasma-initiated polymerization 611
PMMA, heterotactic/isotactic/syndiotactic 439
-, stereoregular, tacticity dependence 629
Poling of polymers 573
Poly(acrylate), comb-shaped polymers 193
Poly(amide imide)s 339
Poly(aramide)s 339
Poly(aryl ether ether ketone)s, di-/tri-/tetra-methyl substituted 281
Poly(arylenecarbonate)s 427
Poly(γ-benzyl L-glutamate)/poly(ethylene oxide)/poly(γ-benzyl L-glutamate) block copolymer and dye 97
Poly(2-bromoethyl methacrylate) 187
Poly[(*p*-bromomethyl)styrene]-*b*-polyisobutylene-*b*-poly[(*p*-bromomethyl)styrene] 155
Poly(3-bromostyrene), NMR 207
Poly[(2*S*, 3*S*)-(+)-2-chloro-3-methylpentyl 4'-(ω-vinyloxyalkyloxy)biphenyl-4-carboxylate]s 249
Poly(3-chloropropyl methacrylate) 187
Poly(diethyl 1,1-cyclopropane dicarboxylate) 395
Poly(2-(3,5-diethynylene-phenyl)-4,4,5,5-teramethyl-4,5-dihydro-1H-imidazol-1-oxyl-3-oxide) 83
Poly(dimethylphenyl methacrylates), viscoelastic relaxations 675
Poly(2,6-dimethyl-*p*-phenylene oxide) 661
Poly(diphenylacetylene) 661
-, ether linkages 133
Poly(dipropargylamine) 11, 179
Poly(ethene-co-vinylacetate), organosolv lignin 361
Poly(ethyl acrylate-*co*-divinylbenzene) 273
Poly(fluoroalkylfumarate), heptadecafluorodecyl group 193
Poly(fumarate), comb-shaped polymers 193
Poly(γ-glutamic acid) esterification 127
Poly(1,6-heptadiyne) backbone 179
-, phosphonated 433
Poly(hydroxamic acid) 273
Poly(α-hydroxy acid) 463
Poly(2-iodoethyl methacrylate) 187
Poly(itaconic) acid 169
Poly(L-lactide) copolymers/polyethylene glycol 463
-, salicylates 509
Poly(lactic acid)s, biocompatibility/bioresorbability 617
Poly(methacrylate), comb-shaped polymers 193
Poly(methyl methacrylate), *tert*-butyllithium/bis(2,6-di-*tert*-butylphenoxy)methylaluminum 439
-, carbazole-labelled 347
-, glassy 155
-, low polydispersity 163
-, polybutadiene 297
Poly(methyl methacrylate)s, separation, tacticity 629
Poly(7-oxanorbomenes) 3
Poly[oxybis(trimethylene) *p,p'*-bibenzoate] 319
Poly[(tetraethyldipropargylmethylenediphosphonate) 433
Poly(*N*-vinyl-2-pyrrolidone) 187
Poly(*p*-phenylenevinylene) 201
Poly(*p*-phenylphenylenevinylene), photoreactivity 201
Poly(tetrafluoroethene) 403
Poly(2-thienyl vinyl ketone), NMR 305

Poly(triethyldipropargylphosphonoacetate) 433
Poly(vinyl heterocycles) 207
Poly(vinyl chloride), antiplasticization 353
Poly(vinylcinnamate) 201
Poly{4-[bis(trimethylstannyl)methyl]styrene} 55
Polyacrylamide networks, collapse 331
Polyacrylate networks 669
Polyalkylation, naphthalene oligomers 493
Polybutadiene-syndiotactic poly(methyl methacrylate) 297
Polycarbodiimides 455
Polydimethylsiloxanes, hydroxypropyl-terminated, cyclic anhydrides 173
Polyesteramides, crown ether units 559
Polyesters, aliphatic 455
-, hyperbranched, relaxation 679
-, resins 447
Polyethers, nematic-nematic transition 325
Polyethylene 229
-, crosslinking of branched 687
- fiber, high modulus 235
- /poly(1,2-butadiene), miscibility 687
Polyethylene glycol/poly(L-lactide) copolymers 463
Polyethylene terephthalate 229, 447
Polyheterocycles 257
Polyisobutylene, carbocationic polymerization 537
-, rubbery 155
Polyketeneimines 455
Polymeric carriers, inmmobilization of amino groups 229
Polyolefin, crystallizable 471
Polyoxetanes, side-chain liquid crystalline 551
Polyoxymethylene, crystallization kinetics 117
Polypropylene films, iso- and syndiotactic, SFM 637
-, isotactic 471
-, organic filler 361
- /polyamide-6, core/shell-microparticle dispersion 694
Polysaccharide mixtures, rheological properties 111
Polysaccharides 719
Polysiloxanes 11
-, functional 173
Polystyrene 661
-, atactic 471
-, anthracene-labelled 347
-, high-impact 693
- microparticles 545
- /poly(methyl methacrylate), nonradiative energy transfer 347
-, stereoregular 367
Polystyrene-block-poly(4-trimethylsilylstyrene) 545
Polystyrene-polyolefin, compatibilization 479
Polyurethane, acrylated, reactive extrusion 605
Polyurethane acrylates 605
-, multiblock, butadiene-co-acrylonitrile oligomers 565
-, segmented 565
Polyvinyl ethers, living 387
Propene polymerization 41
PVC antiplasticization 353
Pyridinium salts, photosensitized free radical polymerization 589

Quinodimethane 27

Rac-[1,2-bis(η^5-(9-fluorenyl)-1-phenylethane] zirconium dichloride/methylalumoxane 41
Radical initiated reactive processing, monomer conversion kinetics 713
α-Relaxation 669
Relaxations, viscoelastic 675
Resists, high performance 55
Ring-opening metathesis polymerization 3, 517
Rubber-reinforced polymers, microstructure, sample preparation 693
Ruthenium catalysis, acetophenone/α,ω-dienes 525

Salicylates, poly(L-lactide) 509
SAN copolymers 223
Scanning force microscopy 487
- - -, polypropylene films 637
Scanning probe microscopy 487
Scanning tunneling microscopy 487
Schiff base-type polymers, pyrrole units 257
Second-harmonic generation 573
Semi-interpenetrating polymer networks 447
Semiconductors colloidal CdS/HgS, CdS/TiO_2 597
Side-chain liquid crystalline polymers 11, 551
- - - - -, metathesis polymerization 179
Small-angle synchrotron, poly[oxybis(trimethylene) *p,p'*-bibenzoate] 319
Spherulite size 117
Stannous octoate/zinc-initiated polymerization, racemic lactide 617
Stereocomplexation 297
Stereoregularity 629
Stilbene, E-isomers 625
Styrene, diphenylzinc-butanone 367
-, irradiation 589
-, living dispersion polymerization 545
Submicron lithography 55
Swelling degree, networks 103
Swollen gels, phase transition 331

Tacticity, poly(methyl methacrylate)s 629
N,N,N',N'-Tetrakis(2-hydroxypropyl)ethylenediamine methacrylate], metal binding 705
1,3,5,7-Tetramethyl-1,3,5,7-tetravinylcyclotetrasiloxane 35
3,3',5,5'-Tetramethylbiphenol 281
Thermoplastics, organosolv-lignin-filled 361
Thermoset resins, dimethacrylate-based 403
Thermosets, liquid crystalline 529
2-Thienyl vinyl ketone 305
Transition metal catalyzed copolymerization 525
Triblock copolymers, amphiphilic 149
1,1,2-Trichloro trifluoro ethane 387
2,3-Trimethylhydroquinone 281
Trimethylsilylmethyllithium 35

2-Vinyl pyridine 589
Vinyl ether monomers, mesogenic 249
4-Vinyl [2.2]paracyclophane 27
4-Vinylphthalic anhydride 373
N-Vinylpyrrolidone 141

Wurtz-Grignard coupling, PMMA 155

ansa-Zirconocene complexes, chiral 41